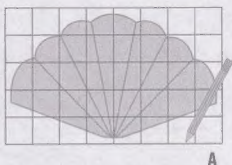


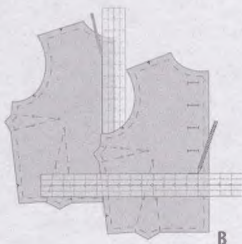
A transparent ruler allows you to see your project under the ruler for accurate positioning and marking. The ruler is designed with multiple markings for measuring.

- 1/16" outer edge marks
- 1/8" grid with inch marks
- 18" ruler
- 1/2" spaced holes for centering

**Centering:** Use centering holes in center of ruler to evenly space buttonholes, tucks and pleats.



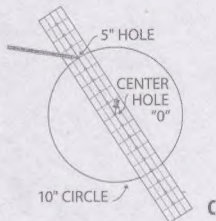
**Enlarging Patterns:** To enlarge patterns on grids, draw a grid to match scale given with the pattern. Draw the same line in squares as corresponding squares in pattern (A).



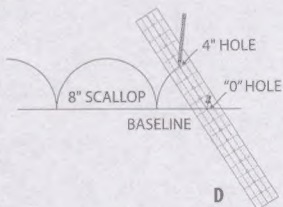
**Establishing Parallel or Perpendicular Lines to Redesign Patterns and Add Seam Allowances:**

Line up any grid line on ruler to pattern line to create parallel lines. Use cross lines of grid to create perpendicular lines (B).

**Drawing Circles:** Anchor ruler with push pin in center hole marked "0". Determine diameter of circle. Divide that number in half and place pencil in corresponding hole. Draw circle by rotating ruler like a compass (C).



**Drawing Scallops:** Draw a base line. Place center hole "0" on base line and secure with push pin. Determine finished width of scallop and divide that number in half. Place pencil in corresponding hole and draw scallop. Repeat for each scallop by moving "0" on ruler to base line end of first scallop (D).



**Designer's Tip:** Use the hard outer edge and flexible feature of the ruler to measure soft curves and create new curved lines when adjusting and altering patterns.